RADIOCHEMISTRY TECHNICIAN
JOB PERFORMANCE MEASURE

TASK CODE: TRC-A15

TASK: Operate a Portable Beta Contamination Detection Instrument

NAME: _____ **SSN**: _____

REFERENCES:

1. WP 12-HP1200, Instrument and Calibration
2. Eberline ASP-1 Technical Manual
3. WP 12-HP1100, Radiological Surveys

TERMINAL OBJECTIVE:

Given that beta activity needs to be determined, perform the pre-operational checks and operate the portable beta instrument per WP 12-HP1200.

CONSEQUENCES OF INADEQUATE PERFORMANCE:

Improper survey results
Spread of contamination

HAZARDS (PERSONNEL/EQUIPMENT STATUS):

None

PRE-REQUISITE TRAINING/ TASK COMPLETION:

1. CF 4.00 Series
2. TRC-A13, Control Radioactive Sources
3. CL-2.17, Contamination Monitoring Instrumentation

TOOLS/EQUIPMENT (MATERIALS REQUIRED):

1. Appropriate Survey Instrumentation
2. Tc99 check source
3. Portable instrument operability check form

Instructions to Trainee: You shall acquire the necessary references and equipment, and complete all required documentation. Knowledge requirements shall be completed with 80% or greater accuracy. Critical step performance shall be completed with 100% accuracy.

Instructions to JPM Evaluator: The trainee is to perform the terminal objective, without assistance, on the job site. Provide clarification of requirements if requested by the trainee. You are encouraged to ask relevant questions to verify trainee understanding. If the trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's qualification card.

KNOWLEDGE REQUIREMENTS:

Reference	Knowledge Requirement	Pass/Fail
2	State the various scales of the ASP-1	
2	Describe how the ASP-1 with a G-M probe operates	
1	State the required preoperational checks.	
1	State the required frequency for the preoperational checks.	
1	State your actions if any of the preoperational checks are unsatisfactory	
3	Discuss how beta contamination results are determined from counts	
3	Discuss your actions upon the event of detecting beta contamination.	
3	State the distance and rate of speed for beta contamination surveys.	

PERFORMANCE REQUIREMENTS:

Reference	Performance Requirement	Pass/Fail
1	Verify the instrument is in calibration.#	
1	Perform a physical inspection of the instrument.#	
1	Perform a battery check.#	
1	Perform a source check of the instrument.#	
1	Complete and submit the portable instrument performance check sheet for review.#	
3	Determine the beta contamination levels of a smear.#	
3	Determine the beta contamination levels from a direct frisk.#	

3	Document the beta contamination results in the Radiochemistry Logbook.#	

# indicates a critical step

FINAL EVALUATION: PASS FAIL

COMMENTS:

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EVALUATOR SIGNATURE: _____ **DATE**:_____

TRAINEE SIGNATURE: _____ **DATE**:_____

MANAGER SIGNATURE: _____ **DATE**:_____